

We claim:

1. A bleaching and detergent system comprising:  
a first aqueous component including an oxygen bleaching activator capable of forming  
a per-acid with oxygen and a rheology modifier, said activator and said modifier  
forming a suspension in said first aqueous component; and  
a second aqueous component including a peroxide and a peroxide stabilizer.

2. Th system of claim 1, wherein said rheology modifier is a polysaccharide  
gum.

3. The system of claim 2, said polysaccharide gum being selected from the  
group consisting of substituted and unsubstituted xanthan gums, guar gums, welan gums, and  
mixtures thereof.

4. The system of claim 1, said first aqueous component further comprising  
a surfactant and a phosphate builder.

5. The system of claim 4, said surfactant being selected from the group  
consisting of anionic or nonionic surfactants.

6. The system of claim 5, said surfactant being selected from the group  
consisting of alkali metal alkylbenzene sulfonates, alkali metal alkyl ether sulfonates, alkali metal  
alkyl sulfates, alkali metal alpha olefin sulfonates, alkali alkane sulfonates, polyethylene oxide  
condensates of alkylphenols, polyethylene oxide condensates of primary or secondary alcohols,  
polyoxyethylene condensates of a hydrophobic polypropyleneoxide/propylene glycol condensate,  
alkyl polyglucosides, alkyl amine oxides, and mixtures thereof.

7. The system of claim 6, said surfactant comprising alkyl phenol ethoxylate.

8. The system of claim 4, said phosphate builder being selected from the group consisting of alkali metal salts of orthophosphoric acid, pyrophosphoric acid, tripolyphosphoric acid, and mixtures thereof.

5 9. The system of claim 1, said first aqueous component comprising from about 1-40% by weight activator based on the weight of the first component.

10 10. The system of claim 1, said first aqueous component comprising from about 0.1-20% by weight modifier based on the weight of the first component.

11. The system of claim 1, said activator being selected from the group consisting of sodium p-acetoxybenzenesulfonate, trisacetylcyanurate, acetylimidazole, benzoylimidazole, tetraacetylenediamine, and mixtures thereof.

15 12. The system of claim 1, said second aqueous component comprising from about 1-40% by weight of a 35% solution of a peroxide based on the weight of the second component.

20 13. The system of claim 1, said peroxide comprising hydrogen peroxide.

14. The system of claim 1, said second aqueous component comprising from about 0.1-10% by weight peroxide stabilizer based on the weight of the second component.

25 15. The system of claim 1, said peroxide stabilizer comprising a phosphonic acid or salt thereof.

16. The system of claim 1, said second aqueous component further including a phosphate stabilizing agent, said stabilizing agent comprising an alkali metal phosphate salt.

17. The system of claim 1, said first aqueous component further comprising one or more ingredients selected from the group consisting of protease enzymes, fluorescent whitening agents, and enzyme stabilizers.

5 18. A bleaching and detergent system comprising:

a first aqueous component including-

from about 1-40% by weight of an oxygen bleaching activator capable of forming a per-acid with oxygen,

from about 1-40% by weight of a surfactant,

10 from about 3-50% by weight of a 60% solution of a TKPP phosphate builder, and

from about 0.1-20% by weight of a polysaccharide gum, all based upon the weight of the first aqueous component; and

a second aqueous component including-

from about 1-40% by weight of a 35% solution of a peroxide,

15 from about 0.1-10% by weight of a peroxide stabilizer, and

from about 1-20% by weight of a phosphate stabilizing agent, all based upon the weight of the second aqueous component.

19. The system of claim 18, said surfactant being selected from the group  
20 consisting of anionic or nonionic surfactants.

20. The system of claim 19, said surfactant being selected from the group consisting of alkali metal alkylbenzene sulfonates, alkali metal alkyl ether sulfonates, alkali metal alkyl sulfates, alkali metal alpha olefin sulfonates, alkali alkane sulfonates, polyethylene oxide  
25 condensates of alkylphenols, polyethylene oxide condensates of primary or secondary alcohols, polyoxyethylene condensates of a hydrophobic polypropyleneoxide/ propylene glycol condensate, alkyl polyglucosides, alkyl amine oxides, and mixtures thereof.

21. The system of claim 20, said surfactant comprising an alkyl phenol  
30 ethoxylate.

22. The system of claim 18, said activator being selected from the group consisting of sodium p-acetoxybenzenesulfonate, trisacetylcyanurate, acetylimidazole, benzoylimidazole, tetraacetylenediamine, and mixtures thereof.

5 23. The system of claim 18, said polysaccharide gum being selected from the group consisting of substituted and unsubstituted xanthan gums, guar gums, welan gums, and mixtures thereof.

24. The system of claim 18, said peroxide comprising hydrogen peroxide.

10 25. The system of claim 18, said peroxide stabilizer comprising a phosphonic acid or salt thereof.

15 26. The system of claim 18, said phosphate stabilizing agent comprising an alkali metal phosphate salt.

27. The system of claim 18, said first aqueous component further comprising one or more ingredients selected from the group consisting of protease enzymes, fluorescent whitening agents, and enzyme stabilizers.

20 28. A method of preparing a bleaching and detergent system comprising the steps of:

forming a first aqueous phase by combining a quantity of water with an oxygen bleaching activator capable of forming a per-acid with oxygen, and a rheology modifier,  
25 said activator and said modifier forming a suspension in said first aqueous phase;  
forming a second aqueous phase by combining a quantity of water with a peroxide and a peroxide stabilizer,  
said first and second aqueous phases kept separated from each other prior to usage of said  
bleaching and detergent system.

29. The method of claim 28, said method including the step of combining said first and second aqueous phases upon usage of said bleaching and detergent system.

30. The method of claim 28, said first aqueous component further comprising  
5 a surfactant and a phosphate builder.

31. The method of claim 30, said surfactant being an anionic or nonionic surfactant selected from the group consisting of alkali metal alkylbenzene sulfonates, alkali metal alkyl ether sulfonates, alkali metal alkyl sulfates, alkali metal alpha olefin sulfonates, alkali  
10 alkane sulfonates, polyethylene oxide condensates of alkylphenols, polyethylene oxide condensates of primary or secondary alcohols, polyoxyethylene condensates of a hydrophobic polypropyleneoxide/propylene glycol condensate, alkyl polyglucosides, alkyl amine oxides, and mixtures thereof.

32. The method of claim 31, said surfactant comprising alkyl phenol  
15 ethoxylate.

33. The method of claim 30, said phosphate builder being selected from the group consisting of alkali metal salts of orthophosphoric acid, pyrophosphoric acid,  
20 tripolyphosphoric acid, and mixtures thereof.

34. The method of claim 28, said activator being selected from the group consisting of sodium p-acetoxybenzenesulfonate, trisacetylcyanurate, acetylimidazole, benzoylimidazole, tetraacetythylenediamine, and mixtures thereof.  
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35. The method of claim 28, said rheology modifier comprising a polysaccharide gum.

36. The method of claim 35, said polysaccharide gum being selected from the group consisting of substituted and unsubstituted xanthan gums, guar gums, welan gums, and mixtures thereof.  
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37. The method of claim 28, said peroxide comprising hydrogen peroxide.

38. The method of claim 28, said peroxide stabilizer comprising a phosphonic  
5 acid or salt thereof.

39. The method of claim 28, said second aqueous component further including  
a phosphate stabilizing agent, said stabilizing agent comprising an alkali metal phosphate salt.

10 40. The method of claim 28, said first aqueous component further comprising  
one or more ingredients selected from the group consisting of protease enzymes, fluorescent  
whitening agents, and enzyme stabilizers.